

ABSTRACT

1 A fuel cell hybrid vehicle utilizing flooded aqueous battery or batteries operatively
2 coupled to a fuel cell stack, an electric drive motor, and an integrated watering system,
3 the integrated watering system comprising: a heat exchanger configured to extract
4 water from exhaust air from the fuel cell stack; a reservoir, operatively connected to
5 store the water; a sensor, operatively connected to generate a signal based on the
6 flooded aqueous batteries' electrolyte level; a pump, operatively connected to the
7 reservoir and the flooded aqueous batteries; and a system controller, operatively
8 connected to receive and evaluate the signal from the sensor and actuate the pump to
9 move water from the reservoir to the flooded aqueous battery or batteries.